STAT

Dear Jim,	
The requirement to explore the feasibility of using your soft- ware on the UNIVAC 494 has been levied on the internal computer people. Consequently, in order to determine the nature and scope of the problem, they have given me the enclosed list of questions. I have answered some of them for the most part; however, they would also like to have your response. I suggest the answers you supply be as brief as possible, since I'm sure there will be more.	
As for the program listing, I would like to have a recent listing for my own files. I have been required more and more to talk to others doing similar work and want to be in a position to state whether or not these are in any way a duplicate of your work. A single program listing would be sufficient as it can be xeroxed here. Internally, this information will be treated as proprietary.	
If there are any questions, please call me.	
Very truly yours,	
Encl.	STAT

11 December 1969

Declass Review by NIMA/DOD

In order to determine the feasibility of converting the image manipulation programs for use on the UNIVAC 494 computer, answers to the following questions would be appreciated.

1. What level of Fortran is now used for these programs and what will be the level on the IBM 360? (1) 1800 public of 16M Fortran V

(phase)

2. Is the system segmented? How many programs are involved?

How many separate subroutines? to yes - based as noot overlay soutine

assigned a clay lack

3. What are the core requirements of each program or subroutine? If it is not practical to provide this information, what is the maximum core needed at any one time? 120,000 lytes - will be fully corrected white yell the word.

4. What input array sizes are presently used and what is the future goal? 64×64 among 64×12€ 21/360-44

- 5. Is it practical to logically break up the larger programs so as to fit in 32K computer words of core? In order to keep core requirements below 32K, is it practical to break up input arrays so as to operate on them in parts? Will list the larget
- 6. For a typical image manipulation problem, how many times would a program or series of subroutines have to be run? How much total central processor time would be needed for such a problem (estimate)?
- 7. How well is each program and subroutine documented? a) Nothing, b) Rough notes and block diagrams, c) Rough specifications including math models, or d) Complete specifications in final form including block diagrams and math models, e) other (please specify).
- 8. What peripheral equipment is needed in addition to the central processor--how much drum, disc, or tape storage, etc?
 - 9. Please supply program listings for the system, if possible.

Communication with external data center notdone graphing opictine making (either cessantly language)

[4916]—Real part

Stoned in 123 marrison

8 196 - Real part Stored in 12,3, warmer Commun size 9+010 Kunds.

Disc I/O would be problem and

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Tol Control language (for storing on disc area etc.)